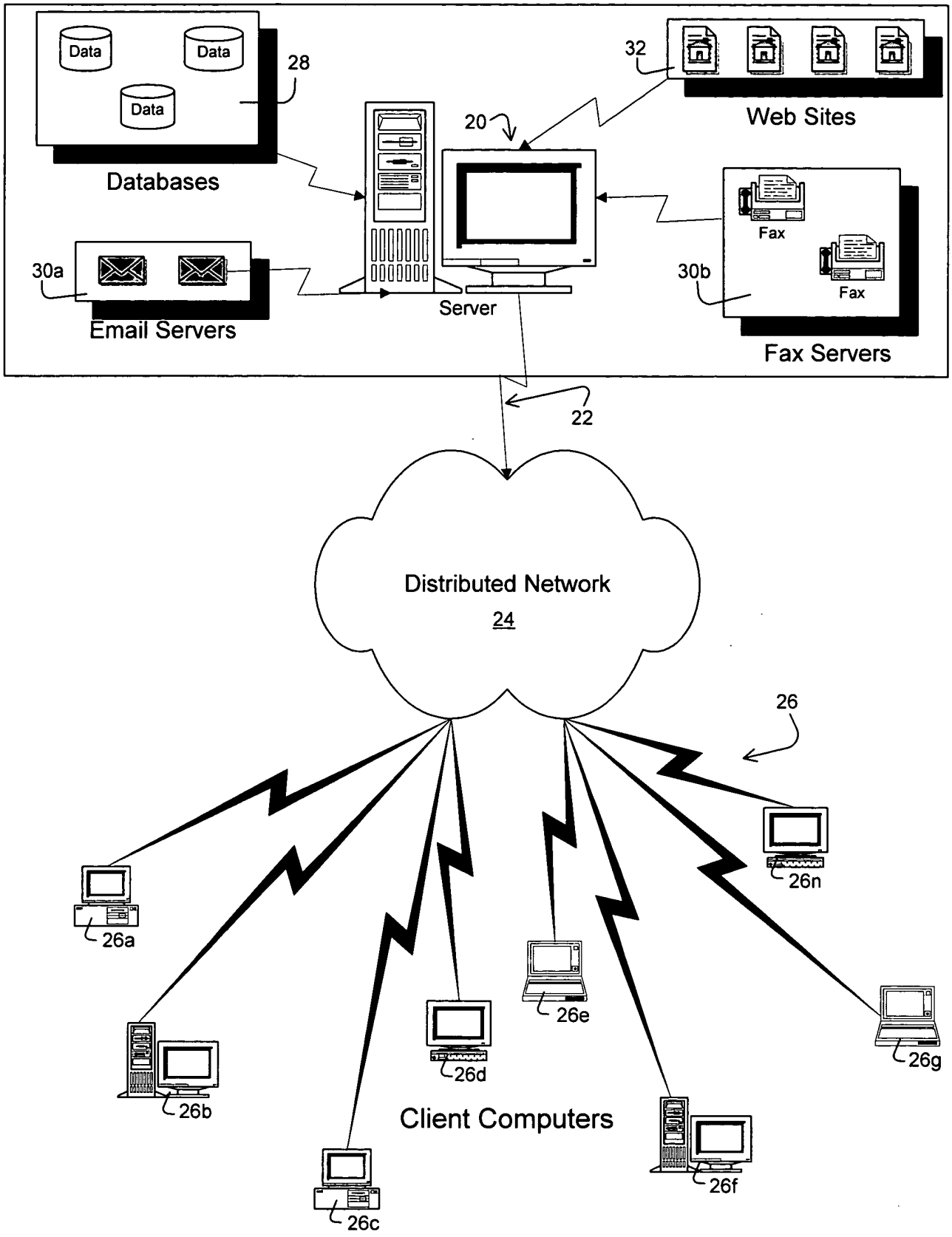
Data
Data
Data
28
Databases
32
Web Sites
20
Server
30a
Email Servers
Fax
Fax
30b
Fax Servers
22
Distributed Network
24
26
26a
26b
26c
26d
26e
26f
26g
26n
Client Computers

Figure 1

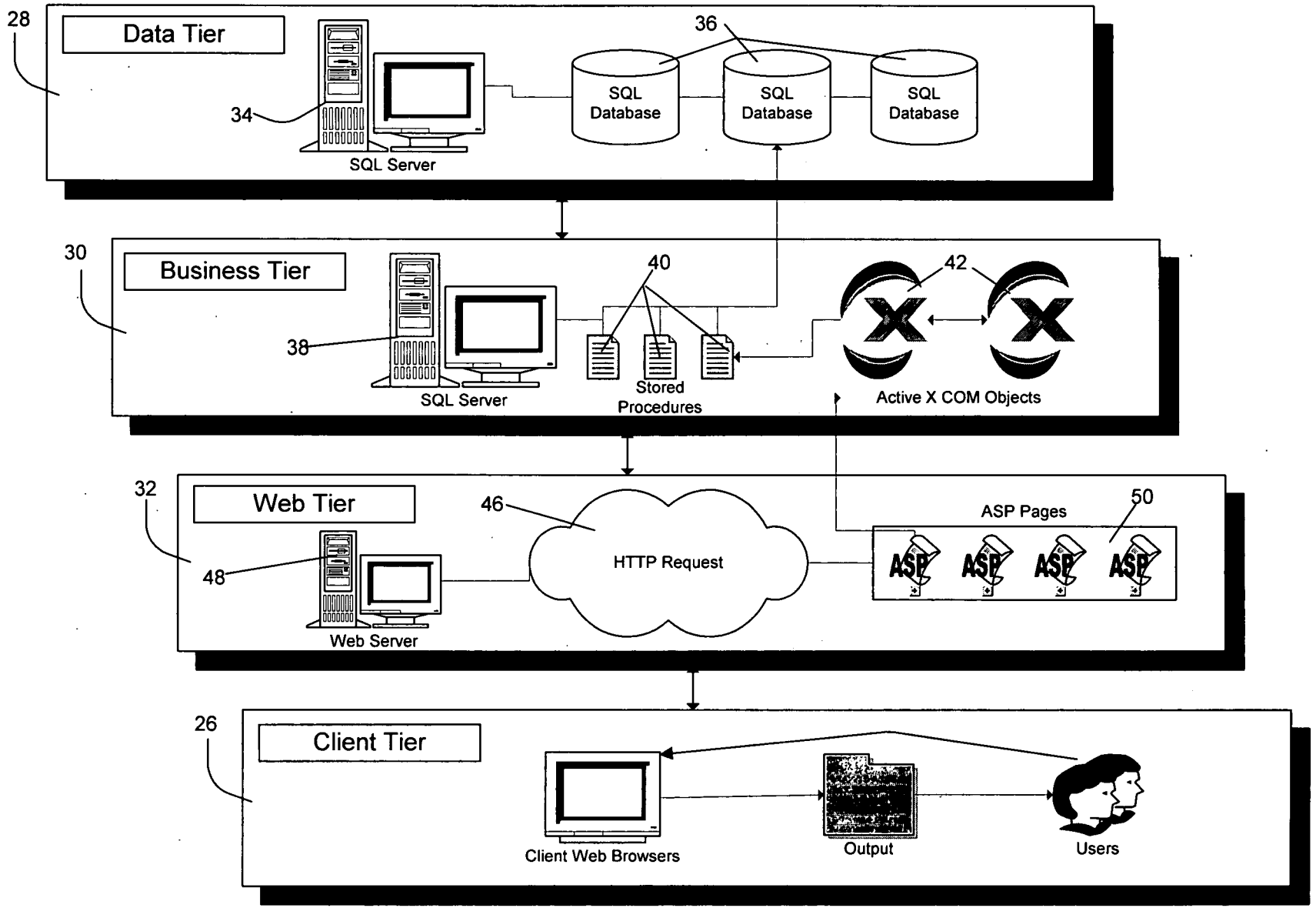
28
Data Tier
36
34
SQL Server
SQL Database
SQL Database
SQL Database
30
Business Tier
40
42
38
SQL Server
Stored Procedures
Active X COM Objects
32
Web Tier
46
ASP Pages
50
48
HTTP Request
Web Server
26
Client Tier
Client Web Browsers
Output
Users

Figure 2

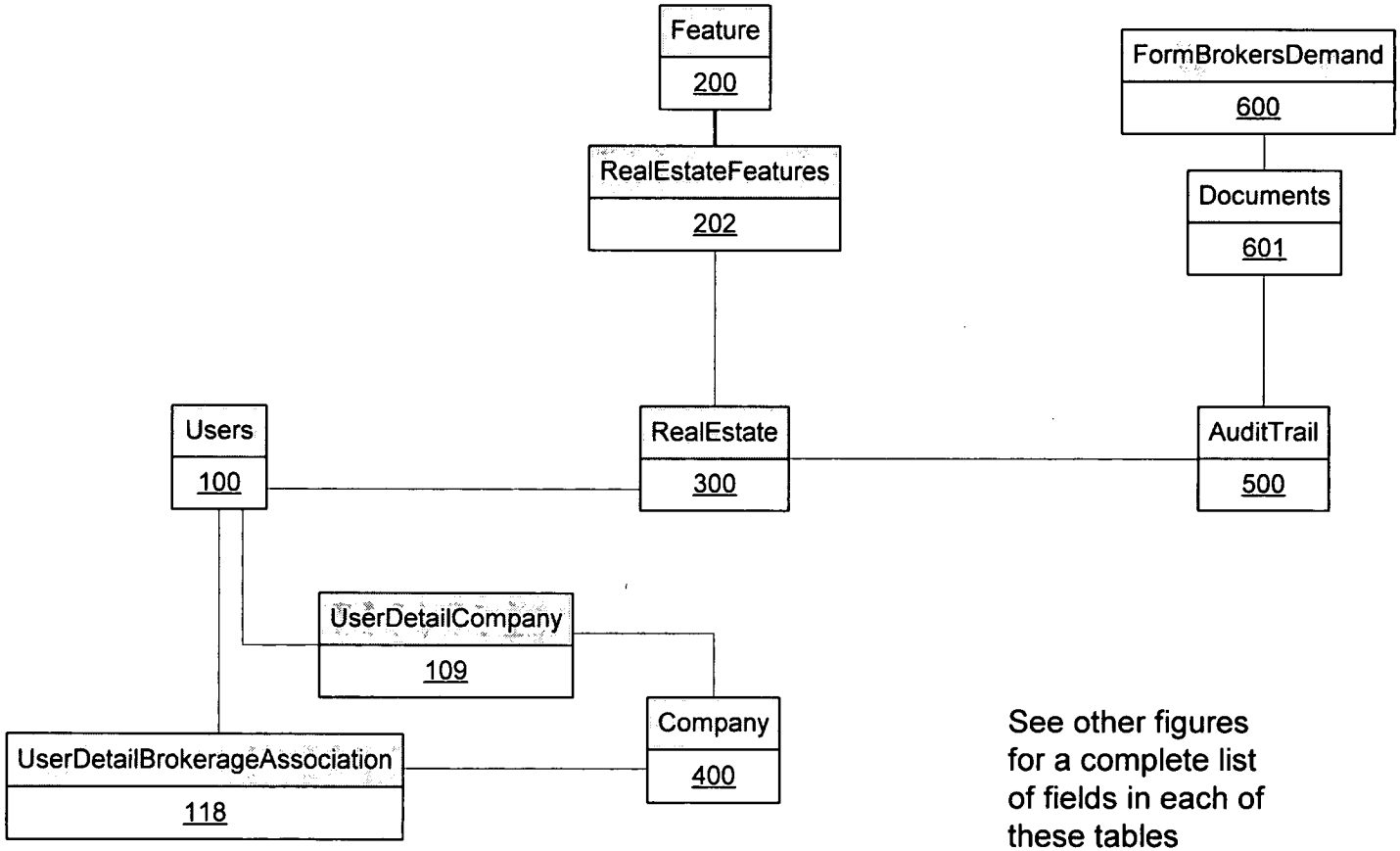
Feature
200
FormBrokersDemand
600
RealEstateFeatures
202
Documents
601
Users
100
RealEstate
300
AuditTrail
500
UserDetailCompany
109
Company
400
UserDetailBrokerageAssociation
118
See other figures for a complete list of fields in each of these tables

Figure 3

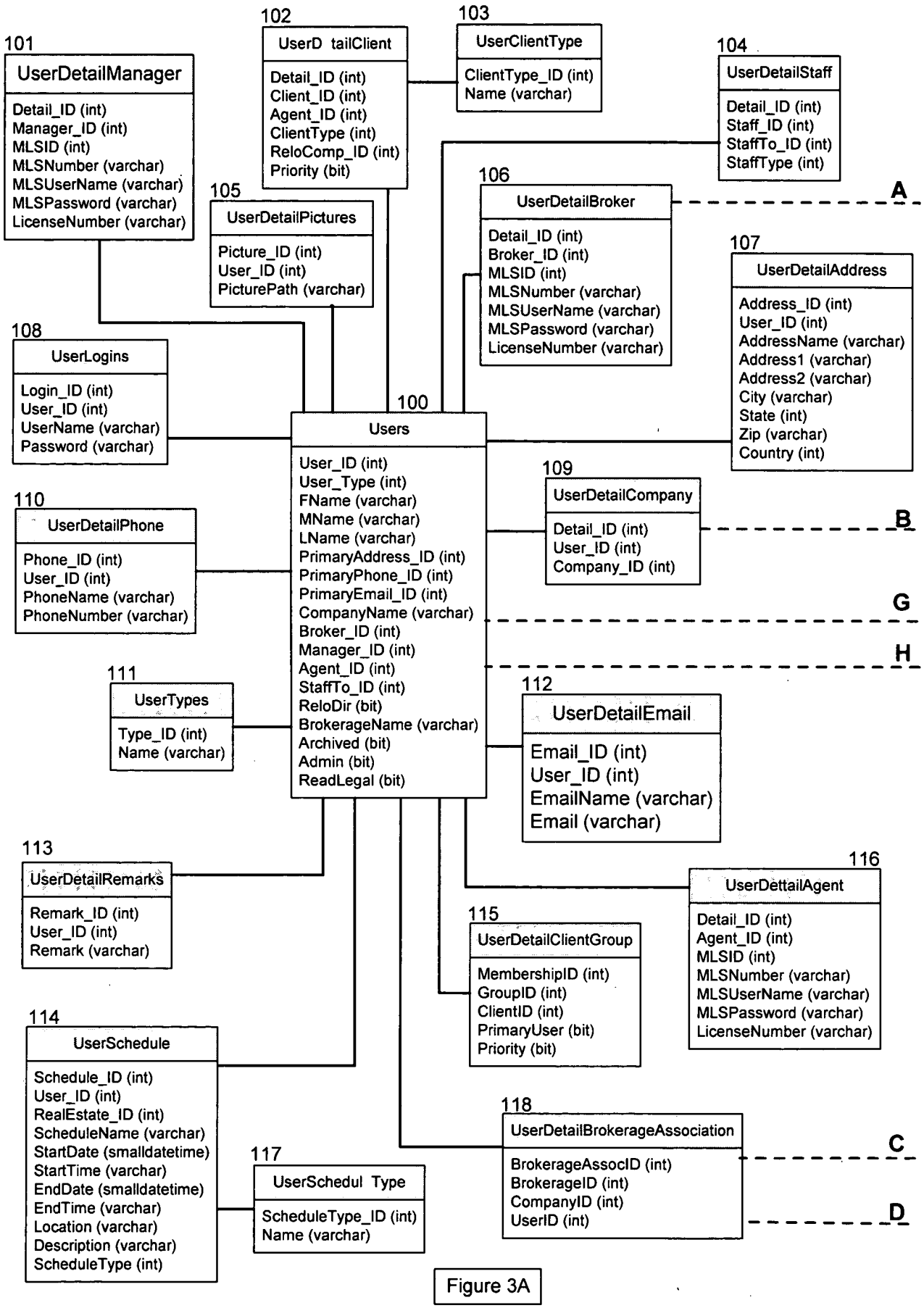
101
UserDetailManager
Detail_ID (int)
Manager_ID (int)
MLSID (int)
MLSNumber (varchar)
MLSUserName (varchar)
MLSPassword (varchar)
LicenseNumber (varchar)
102
UserD tailClient
Detail_ID (int)
Client_ID (int)
Agent_ID (int)
ClientType (int)
ReloComp_ID (int)
Priority (bit)
103
UserClientType
ClientType_ID (int)
Name (varchar)
104
UserDetailStaff
Detail_ID (int)
Staff_ID (int)
StaffTo_ID (int)
StaffType (int)
105
UserDetailPictures
Picture_ID (int)
User_ID (int)
PicturePath (varchar)
106
UserDetailBroker
Detail_ID (int)
Broker_ID (int)
MLSID (int)
MLSNumber (varchar)
MLSUserName (varchar)
MLSPassword (varchar)
LicenseNumber (varchar)
A
107
UserDetailAddress
Address_ID (int)
User_ID (int)
AddressName (varchar)
Address1 (varchar)
Address2 (varchar)
City (varchar)
State (int)
Zip (varchar)
Country (int)
108
UserLogins
Login_ID (int)
User_ID (int)
UserName (varchar)
Password (varchar)
100
Users
User_ID (int)
User_Type (int)
FName (varchar)
MName (varchar)
LName (varchar)
PrimaryAddress_ID (int)
PrimaryPhone_ID (int)
PrimaryEmail_ID (int)
CompanyName (varchar)
Broker_ID (int)
Manager_ID (int)
Agent_ID (int)
StaffTo_ID (int)
ReloDir (bit)
BrokerageName (varchar)
Archived (bit)
Admin (bit)
ReadLegal (bit)
109
UserDetailCompany
Detail_ID (int)
User_ID (int)
Company_ID (int)
B
G
H
110
UserDetailPhone
Phone_ID (int)
User_ID (int)
PhoneName (varchar)
PhoneNumber (varchar)
111
UserTypes
Type_ID (int)
Name (varchar)
112
UserDetailEmail
Email_ID (int)
User_ID (int)
EmailName (varchar)
Email (varchar)
113
UserDetailRemarks
Remark_ID (int)
User_ID (int)
Remark (varchar)
116
UserDettailAgent
Detail_ID (int)
Agent_ID (int)
MLSID (int)
MLSNumber (varchar)
MLSUserName (varchar)
MLSPassword (varchar)
LicenseNumber (varchar)
115
UserDetailClientGroup
MembershipID (int)
GroupID (int)
ClientID (int)
PrimaryUser (bit)
Priority (bit)
114
UserSchedule
Schedule_ID (int)
User_ID (int)
RealEstate_ID (int)
ScheduleName (varchar)
StartDate (smalldatetime)
StartTime (varchar)
EndDate (smalldatetime)
EndTime (varchar)
Location (varchar)
Description (varchar)
ScheduleType (int)
118
UserDetailBrokerageAssociation
BrokerageAssocID (int)
BrokerageID (int)
CompanyID (int)
UserID (int)
C
D
117
UserSchedul Type
ScheduleType_ID (int)
Name (varchar)

Figure 3A

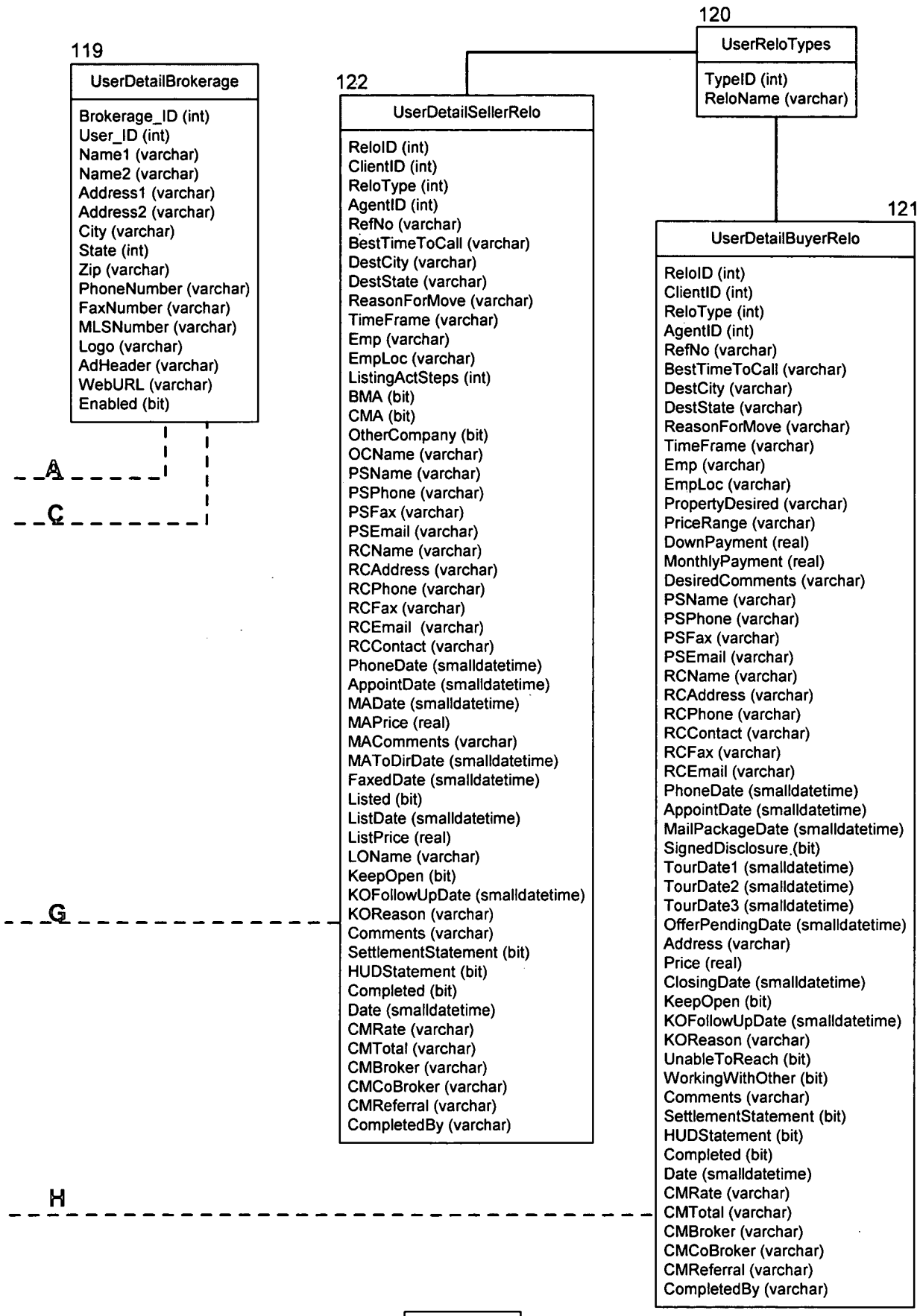
119
UserDetailBrokerage
Brokerage_ID (int)
User_ID (int)
Name1 (varchar)
Name2 (varchar)
Address1 (varchar)
Address2 (varchar)
City (varchar)
State (int)
Zip (varchar)
PhoneNumber (varchar)
FaxNumber (varchar)
MLSNumber (varchar)
Logo (varchar)
AdHeader (varchar)
WebURL (varchar)
Enabled (bit)
120
UserReloTypes
TypeID (int)
ReloName (varchar)
122
UserDetailSellerRelo
ReloID (int)
ClientID (int)
ReloType (int)
AgentID (int)
RefNo (varchar)
BestTimeToCall (varchar)
DestCity (varchar)
DestState (varchar)
ReasonForMove (varchar)
TimeFrame (varchar)
Emp (varchar)
EmpLoc (varchar)
ListingActSteps (int)
BMA (bit)
CMA (bit)
OtherCompany (bit)
OCName (varchar)
PSName (varchar)
PSPhone (varchar)
PSFax (varchar)
PSEmail (varchar)
RCName (varchar)
RCAddress (varchar)
RCPhone (varchar)
RCFax (varchar)
RCEmail (varchar)
RCContact (varchar)
PhoneDate (smalldatetime)
AppointDate (smalldatetime)
MADate (smalldatetime)
MAPrice (real)
MAComments (varchar)
MAToDirDate (smalldatetime)
FaxedDate (smalldatetime)
Listed (bit)
ListDate (smalldatetime)
ListPrice (real)
LOName (varchar)
KeepOpen (bit)
KOFollowUpDate (smalldatetime)
KOReason (varchar)
Comments (varchar)
SettlementStatement (bit)
HUDStatement (bit)
Completed (bit)
Date (smalldatetime)
CMRate (varchar)
CMTotal (varchar)
CMBroker (varchar)
CMCoBroker (varchar)
CMReferral (varchar)
CompletedBy (varchar)
121
UserDetailBuyerRelo
ReloID (int)
ClientID (int)
ReloType (int)
AgentID (int)
RefNo (varchar)
BestTimeToCall (varchar)
DestCity (varchar)
DestState (varchar)
ReasonForMove (varchar)
TimeFrame (varchar)
Emp (varchar)
EmpLoc (varchar)
PropertyDesired (varchar)
PriceRange (varchar)
DownPayment (real)
MonthlyPayment (real)
DesiredComments (varchar)
PSName (varchar)
PSPhone (varchar)
PSFax (varchar)
PSEmail (varchar)
RCName (varchar)
RCAddress (varchar)
RCPhone (varchar)
RCContact (varchar)
RCFax (varchar)
RCEmail (varchar)
PhoneDate (smalldatetime)
AppointDate (smalldatetime)
MailPackageDate (smalldatetime)
SignedDisclosure (bit)
TourDate1 (smalldatetime)
TourDate2 (smalldatetime)
TourDate3 (smalldatetime)
OfferPendingDate (smalldatetime)
Address (varchar)
Price (real)
ClosingDate (smalldatetime)
KeepOpen (bit)
KOFollowUpDate (smalldatetime)
KOReason (varchar)
UnableToReach (bit)
WorkingWithOther (bit)
Comments (varchar)
SettlementStatement (bit)
HUDStatement (bit)
Completed (bit)
Date (smalldatetime)
CMRate (varchar)
CMTotal (varchar)
CMBroker (varchar)
CMCoBroker (varchar)
CMReferral (varchar)
CompletedBy (varchar)
A
C
G
H

Figure 3B

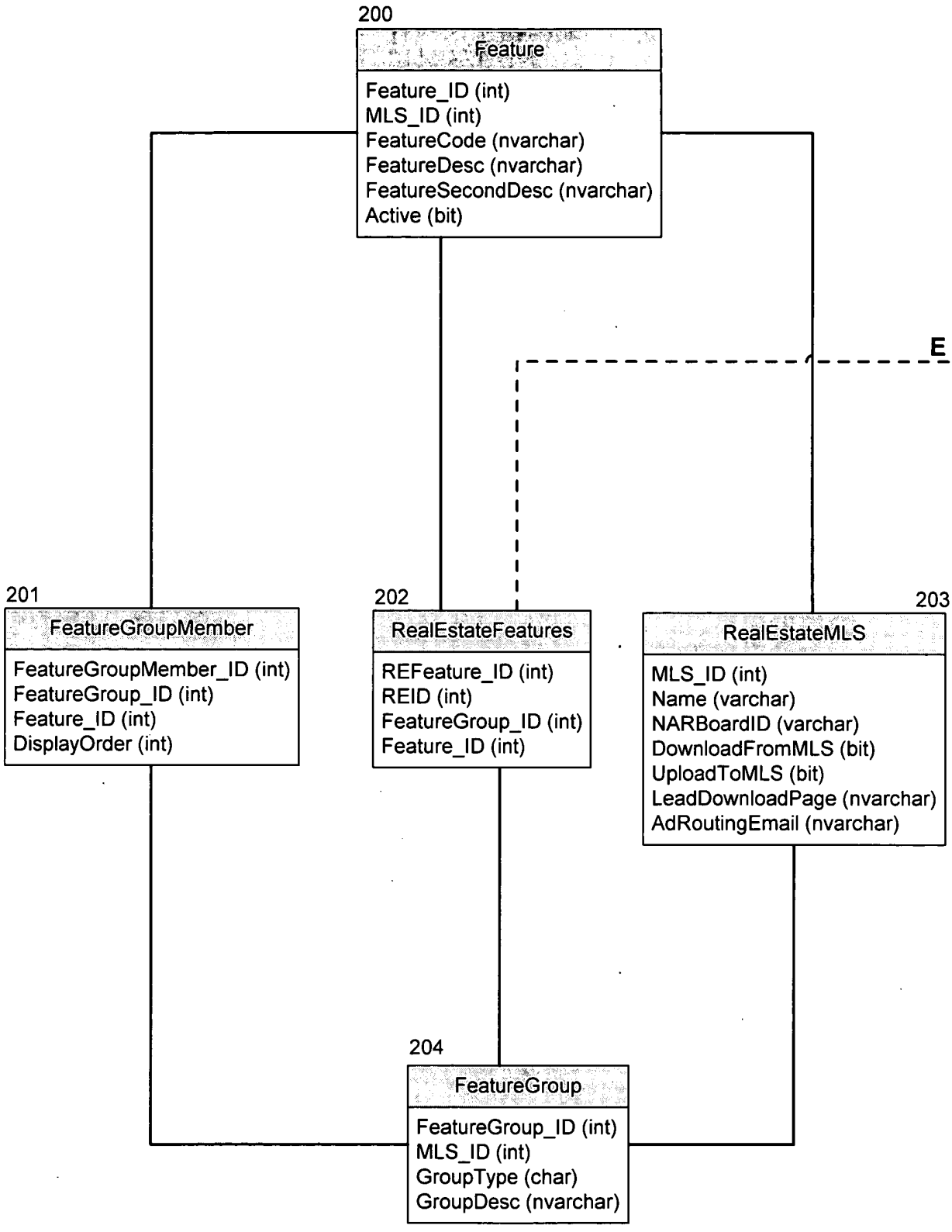
200
Feature
Feature_ID (int)
MLS_ID (int)
FeatureCode (nvarchar)
FeatureDesc (nvarchar)
FeatureSecondDesc (nvarchar)
Active (bit)
E
201
FeatureGroupMember
FeatureGroupMember_ID (int)
FeatureGroup_ID (int)
Feature_ID (int)
DisplayOrder (int)
202
RealEstateFeatures
REFeature_ID (int)
REID (int)
FeatureGroup_ID (int)
Feature_ID (int)
203
RealEstateMLS
MLS_ID (int)
Name (varchar)
NARBoardID (varchar)
DownloadFromMLS (bit)
UploadToMLS (bit)
LeadDownloadPage (nvarchar)
AdRoutingEmail (nvarchar)
204
FeatureGroup
FeatureGroup_ID (int)
MLS_ID (int)
GroupType (char)
GroupDesc (nvarchar)

Figure 4

300

RealEstate
RealEstate_ID (int)
SellingAgent_ID (int)
BuyingAgent_ID (int)
Seller_ID (int)
SellerAttorney_ID (int)
SellerAttorneyUser_ID (int)
Buyer_ID (int)
BuyerAttorney_ID (int)
BuyerAttorneyUser_ID (int)
TitleCo_ID (int)
TitleCoUser_ID (int)
MortgageCo_ID (int)
MortgageCoUser_ID (int)
ExistingMortgageCo_ID (int)
ExistingMortgageCoUser_ID (int)
CoOp_ID (int)
CoOpUser_ID (int)
SurveyCoUser_ID (int)
HomeInspectionCo_ID (int)
HomeInspectionCoUser_ID (int)
PestControlCO_ID (int)
PestControlCoUser_ID (int)
SignCo_ID (int)
SignCoUser_ID (int)
AdvertisingCo_ID (int)
AdvertisingCoUser_ID (int)
AppraisalCo_ID (int)
AppraisalCoUser_ID (int)
Municipality_ID (int)
MunicipalityUser_ID (int)
InsuranceCo_ID (int)
InsuranceCoUser_ID (int)
ListingBrokerAttorney_ID (int)
ListingBrokerAttorneyUser_ID (int)
SellingBrokerAttorney_ID (int)
SellingBrokerAttorneyUser_ID (int)
StreetNumber (varchar)
StreetDirection (varchar)
StreetName (varchar)
Address1 (varchar)
Address2 (varchar)
SortAddress (varchar)
City (varchar)
State (int)
Zip (varchar)
County (int)
Country (int)
Status (varchar)
ActiveDate (smalldatetime)
PendingDate (smalldatetime)
BLDate (smalldatetime)
ClosedDate (smalldatetime)
ExpiredDate (smalldatetime)
OffMarketDate (smalldatetime)
BrokerageCode (varchar)
MLSCode (varchar)
Price (real)
SchoolDistrict (varchar)

RealEstate (cont'd)
SchoolDistID (varchar)
LotSize (varchar)
SquareFootage (varchar)
CrossRoads (varchar)
Style (varchar)
Construction (varchar)
YearBuilt (varchar)
Garage (varchar)
HeatType (varchar)
WaterSupply (varchar)
SewerSupply (varchar)
AirConditioning (bit)
PavedRoad (bit)
LegalDescription (varchar)
Included (varchar)
Excluded (varchar)
Surveyed (bit)
Perked (bit)
Pond (bit)
TaxSpecsAssess (varchar)
SharedDriveway (bit)
TennantOccupied (bit)
Class (varchar)
RoomSizes (varchar)
Lease (bit)
SubdividionName (varchar)
Acreage (varchar)
Bedrooms (int)
Bathrooms (int)
HalfBaths (int)
Rooms (int)
SubdisionAssociation (bit)
SubAssocName (varchar)
MembershipMandatory (bit)
InitiationFee (real)
MembershipDues (varchar)
PublicConsumptionRemarks (varchar)
PrivateConsumptionRemarks (varchar)
CityCertificationsRequired (bit)
ExpirationDate (smalldatetime)
TotalCommision (real)
WhyOffMarket (varchar)
SellersAttorney_ID (int)
PricingHistory (varchar)
MapCoords (varchar)
VirtualTourURL (varchar)
Foundation (varchar)
Exceptions (bit)
Exclusions (varchar)
Platted (bit)
FutureSplitsIncluded (bit)
TermCash (bit)
TermConvMort (bit)
TermFHA (bit)
TermVA (bit)
TermLandContract (bit)
TermLandContractDetail (varchar)
TermConvMortDetail (varchar)

RealEstate (cont'd)
TaxSummer (real)
TaxWinter (real)
TaxAnnual (real)
TaxHomestead (bit)
TaxSEV (varchar)
Easements (varchar)
SidwellNumber (varchar)
TownshipAndSection (varchar)
CompSubAgency (varchar)
CompBuyerBroker (varchar)
CompNonAgent (varchar)
Sign (varchar)
DealNumber (varchar)
MLSStyle (int)
MLSClass (int)
Disclosure 9bit)
ContractType (bit)
Disposition (bit)
AreaNumber (varchar)
Directions (varchar)
SchoolElem (varchar)
SchoolMidd (varchar)
SchoolHigh (varchar)
Township (varchar)
Section (varchar)
Frontage (varchar)
Occupancy (varchar)
OccupancyRate (real)
BuiltOn (varchar)
AdLong (varchar)
AdShort1 (varchar)
AdShort2 (varchar)
AdCode (varchar)
Remarks (varchar)
StatusRemarks (varchar)
LakeName (varchar)
PrimaryPic_ID (int)
MortgageApproved (bit)
Archived (bit)
WhenToSubmitToMLS (dateTime)
SubmittedToMLS (datetime)

Figure 5A

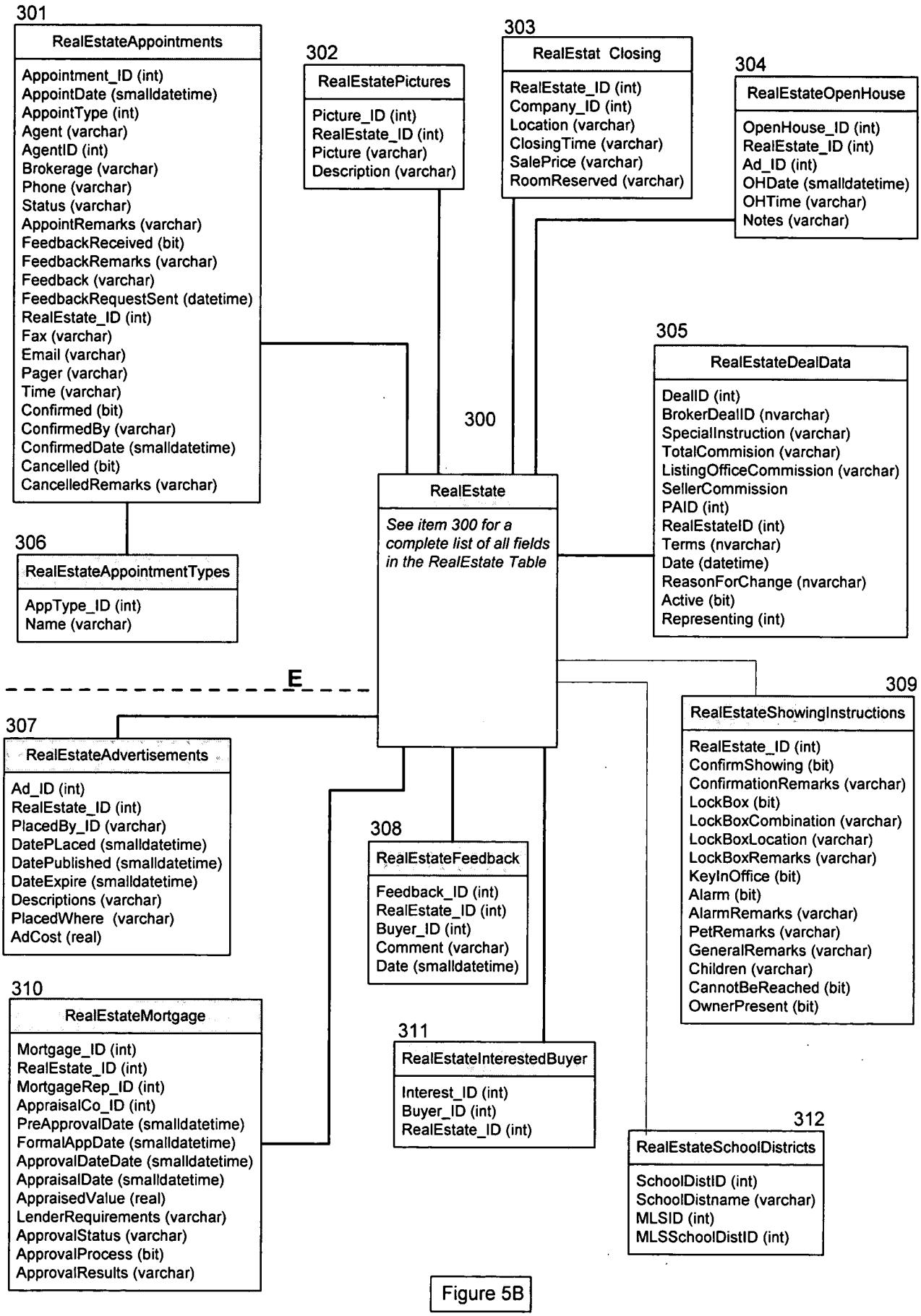
301
RealEstateAppointments
Appointment_ID (int)
AppointDate (smalldatetime)
AppointType (int)
Agent (varchar)
AgentID (int)
Brokerage (varchar)
Phone (varchar)
Status (varchar)
AppointRemarks (varchar)
FeedbackReceived (bit)
FeedbackRemarks (varchar)
Feedback (varchar)
FeedbackRequestSent (datetime)
RealEstate_ID (int)
Fax (varchar)
Email (varchar)
Pager (varchar)
Time (varchar)
Confirmed (bit)
ConfirmedBy (varchar)
ConfirmedDate (smalldatetime)
Cancelled (bit)
CancelledRemarks (varchar)
302
RealEstatePictures
Picture_ID (int)
RealEstate_ID (int)
Picture (varchar)
Description (varchar)
303
RealEstat Closing
RealEstate_ID (int)
Company_ID (int)
Location (varchar)
ClosingTime (varchar)
SalePrice (varchar)
RoomReserved (varchar)
304
RealEstateOpenHouse
OpenHouse_ID (int)
RealEstate_ID (int)
Ad_ID (int)
OHDate (smalldatetime)
OHTime (varchar)
Notes (varchar)
305
RealEstateDealData
DealID (int)
BrokerDealID (nvarchar)
SpecialInstruction (varchar)
TotalCommision (varchar)
ListingOfficeCommission (varchar)
SellerCommission
PAID (int)
RealEstateID (int)
Terms (nvarchar)
Date (datetime)
ReasonForChange (nvarchar)
Active (bit)
Representing (int)
300
RealEstate
See item 300 for a complete list of all fields in the RealEstate Table
306
RealEstateAppointmentTypes
AppType_ID (int)
Name (varchar)
E
307
RealEstateAdvertisements
Ad_ID (int)
RealEstate_ID (int)
PlacedBy_ID (varchar)
DatePLaced (smalldatetime)
DatePublished (smalldatetime)
DateExpire (smalldatetime)
Descriptions (varchar)
PlacedWhere (varchar)
AdCost (real)
308
RealEstateFeedback
Feedback_ID (int)
RealEstate_ID (int)
Buyer_ID (int)
Comment (varchar)
Date (smalldatetime)
309
RealEstateShowingInstructions
RealEstate_ID (int)
ConfirmShowing (bit)
ConfirmationRemarks (varchar)
LockBox (bit)
LockBoxCombination (varchar)
LockBoxLocation (varchar)
LockBoxRemarks (varchar)
KeyInOffice (bit)
Alarm (bit)
AlarmRemarks (varchar)
PetRemarks (varchar)
GeneralRemarks (varchar)
Children (varchar)
CannotBeReached (bit)
OwnerPresent (bit)
310
RealEstateMortgage
Mortgage_ID (int)
RealEstate_ID (int)
MortgageRep_ID (int)
AppraisalCo_ID (int)
PreApprovalDate (smalldatetime)
FormalAppDate (smalldatetime)
ApprovalDateDate (smalldatetime)
AppraisalDate (smalldatetime)
AppraisedValue (real)
LenderRequirements (varchar)
ApprovalStatus (varchar)
ApprovalProcess (bit)
ApprovalResults (varchar)
311
RealEstateInterestedBuyer
Interest_ID (int)
Buyer_ID (int)
RealEstate_ID (int)
312
RealEstateSchoolDistricts
SchoolDistID (int)
SchoolDistname (varchar)
MLSID (int)
MLSSchoolDistID (int)

Figure 5B

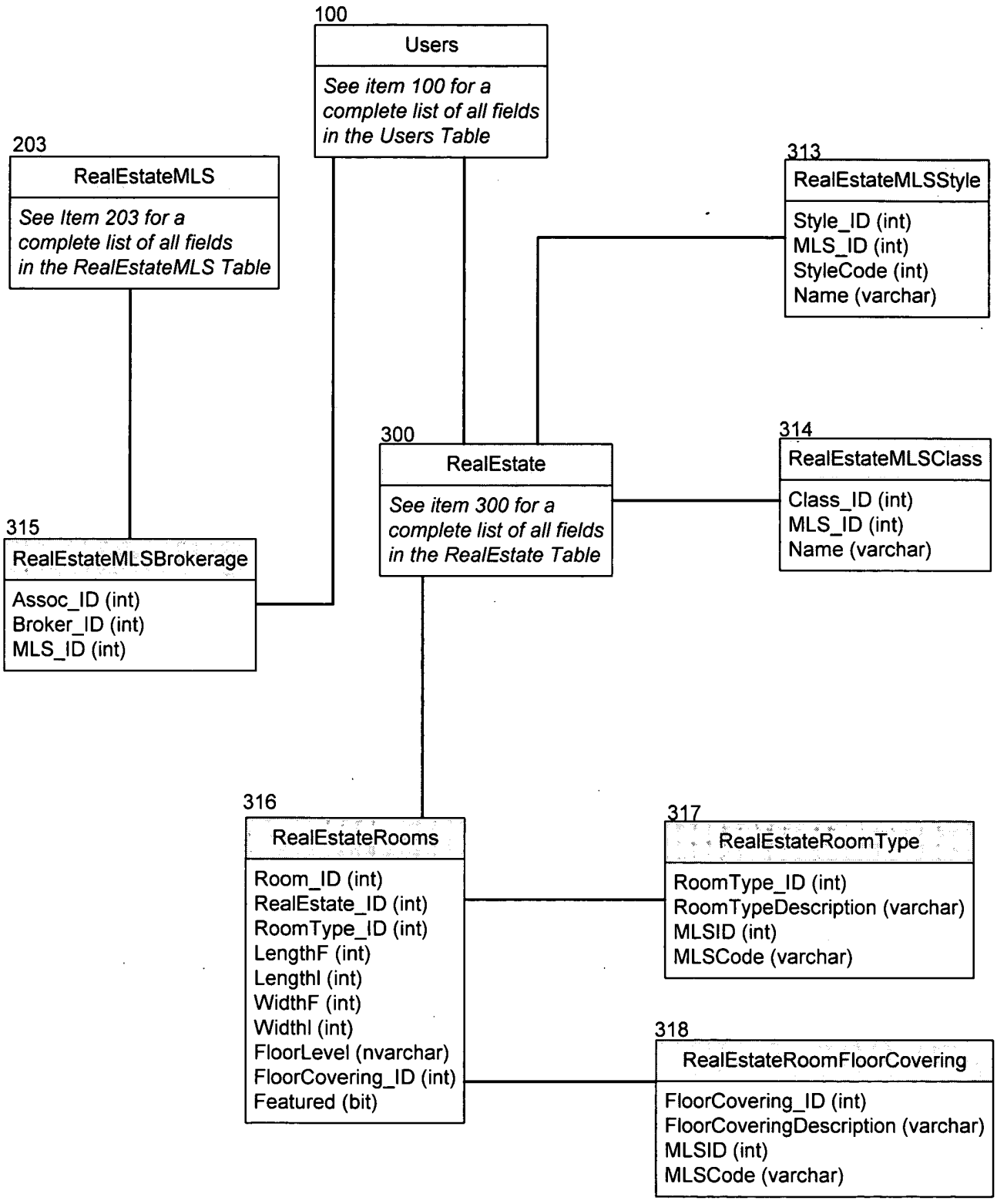
100
Users
See item 100 for a complete list of all fields in the Users Table
203
RealEstateMLS
See Item 203 for a complete list of all fields in the RealEstateMLS Table
313
RealEstateMLSStyle
Style_ID (int)
MLS_ID (int)
StyleCode (int)
Name (varchar)
300
RealEstate
See item 300 for a complete list of all fields in the RealEstate Table
314
RealEstateMLSClass
Class_ID (int)
MLS_ID (int)
Name (varchar)
315
RealEstateMLSBrokerage
Assoc_ID (int)
Broker_ID (int)
MLS_ID (int)
316
RealEstateRooms
Room_ID (int)
RealEstate_ID (int)
RoomType_ID (int)
LengthF (int)
LengthI (int)
WidthF (int)
WidthI (int)
FloorLevel (nvarchar)
FloorCovering_ID (int)
Featured (bit)
317
RealEstateRoomType
RoomType_ID (int)
RoomTypeDescription (varchar)
MLSID (int)
MLSCode (varchar)
318
RealEstateRoomFloorCovering
FloorCovering_ID (int)
FloorCoveringDescription (varchar)
MLSID (int)
MLSCode (varchar)

Figure 5C

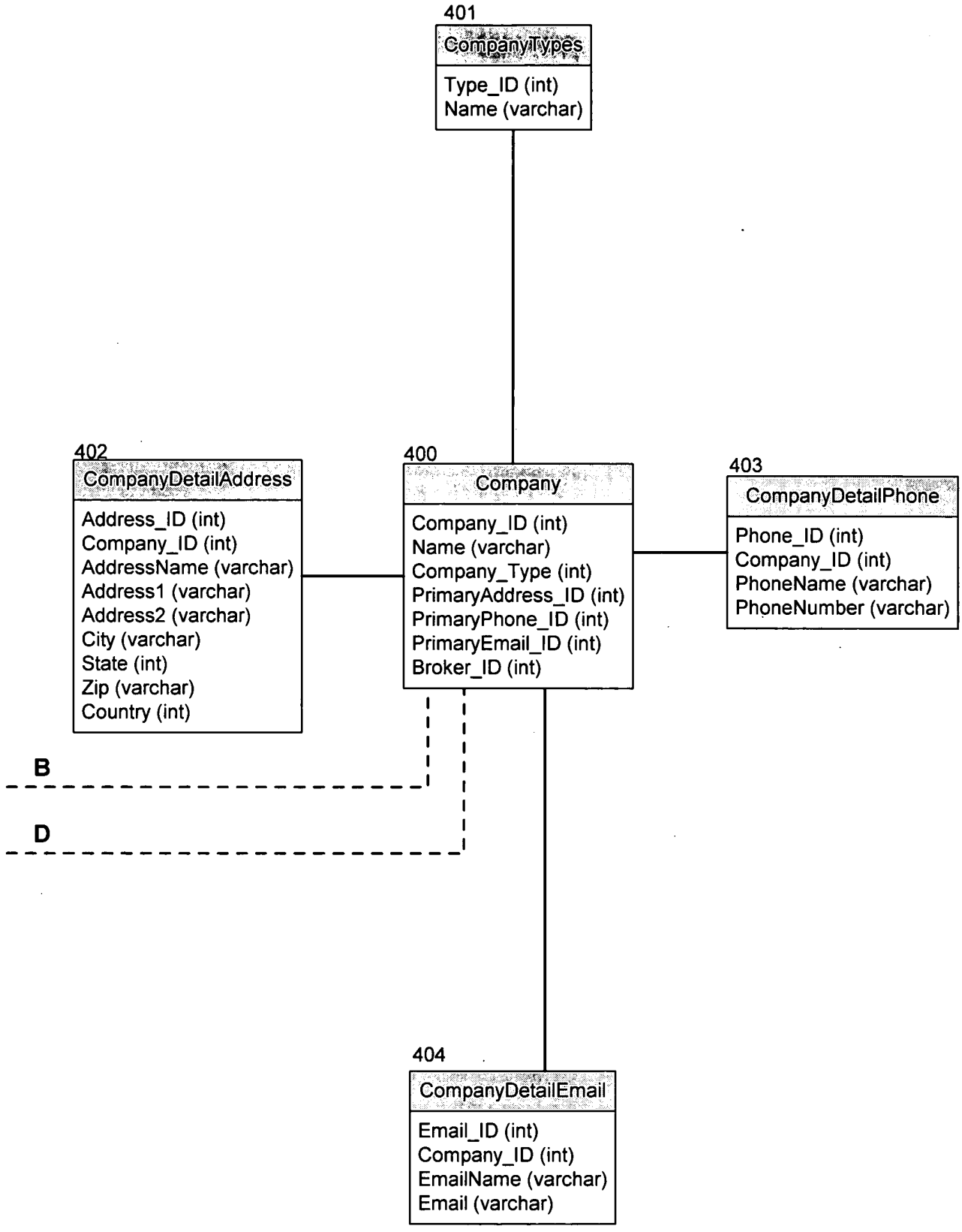
401
CompanyTypes
Type_ID (int)
Name (varchar)
402
CompanyDetailAddress
Address_ID (int)
Company_ID (int)
AddressName (varchar)
Address1 (varchar)
Address2 (varchar)
City (varchar)
State (int)
Zip (varchar)
Country (int)
400
Company
Company_ID (int)
Name (varchar)
Company_Type (int)
PrimaryAddress_ID (int)
PrimaryPhone_ID (int)
PrimaryEmail_ID (int)
Broker_ID (int)
403
CompanyDetailPhone
Phone_ID (int)
Company_ID (int)
PhoneName (varchar)
PhoneNumber (varchar)
B
D
404
CompanyDetailEmail
Email_ID (int)
Company_ID (int)
EmailName (varchar)
Email (varchar)

Figure 6

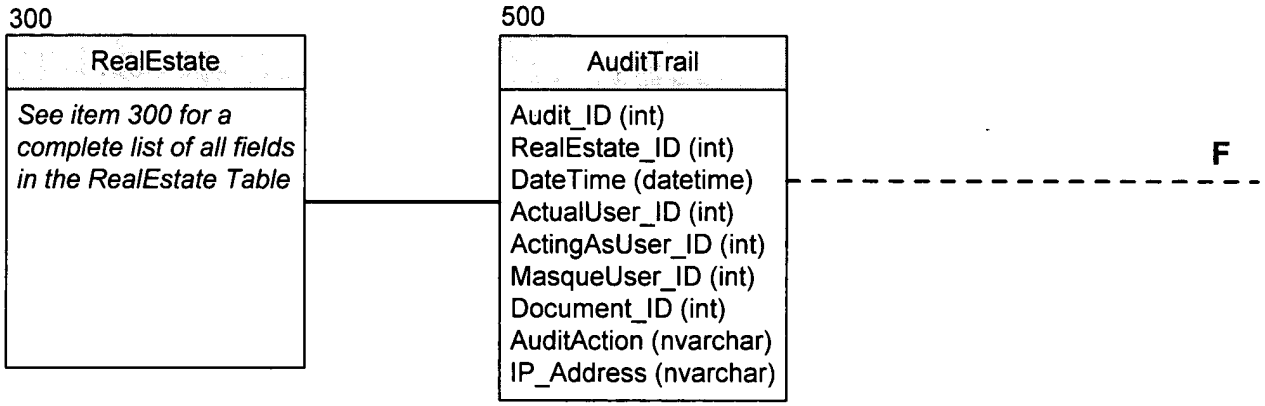
300
RealEstate
See item 300 for a complete list of all fields in the RealEstate Table
500
AuditTrail
Audit_ID (int)
RealEstate_ID (int)
DateTime (datetime)
ActualUser_ID (int)
ActingAsUser_ID (int)
MasqueUser_ID (int)
Document_ID (int)
AuditAction (nvarchar)
IP_Address (nvarchar)
F

Figure 7

600

FormBrokersDemand
Demand_ID (int)
RealEstate_ID (int)
Agent_ID (int)
Broker_ID (int)
B1Name (varchar)
B1SSN (varchar)
B2Name (varchar)
B2SSN (varchar)
BAddress (varchar)
BCity (varchar)
BState (varchar)
BZip (varchar)
BHPhone (varchar)
BBPhone (varchar)
BBFax (varchar)
BEmail (varchar)
BURL (varchar)
S1Name (varchar)
S1SSN (varchar)
S2Name (varchar)
S2SSN (varchar)
SAddress (varchar)
SCity (varchar)
SState (varchar)
SZip (varchar)
SHPhone (varchar)
SBusPhone (varchar)
SBusFax (varchar)
SEmail (varchar)
SURL (varchar)
PMLS (varchar)
PSidwell (varchar)
PAddress (varchar)
PCity (varchar)
PTownship (varchar)
PCounty (varchar)
PState (varchar)
PZip (varchar)
PCityType (varchar)
PActCity (varchar)
PLegal (varchar)
PLegalAttached (bit)
PDues (varchar)
PDuesMonthly (bit)
PMineral (varchar)
PMineralInc (bit)
PInc (varchar)
PExc (varchar)
PLPrice (varchar)
PPPrice (varchar)
PADate (varchar)
PCDate (varchar)
PEMoney (varchar)
PEDate (varchar)
POccupancy (varchar)
SBFirm (varchar)
SBOffice (varchar)
SBAddress (varchar)

FormBrokersDemand (cont'd)
SBCity (varchar)
SBState (varchar)
SBZip (varchar)
SBPhone (varchar)
SBFax (varchar)
SBAgent (varchar)
SBAgentID (varchar)
SBAgentPhone (varchar)
SBAgentEmail (varchar)
SBAgentURL (varchar)
SBStatus (int)
LBFirm (varchar)
LBOffice (varchar)
LBAddress (varchar)
LBCity (varchar)
LBState (varchar)
LBZip (varchar)
LBPhone (varchar)
LBFax (varchar)
LBAgent (varchar)
LBAgentID (varchar)
LBAgentPhone (varchar)
LBAgentEmail (varchar)
LBAgentURL (varchar)
LBStatus (varchar)
TName (varchar)
TCommitment (varchar)
TAddress (varchar)
TCity (varchar)
TState (varchar)
TZip (varchar)
TCoPhone (varchar)
TCoFax (varchar)
TRep (varchar)
TPhone (varchar)
TFax (varchar)
TEmail (varchar)
TURL (varchar)
APA (bit)
AEMoney (bit)
AWarranty (bit)
ADisc (bit)
APre (bit)
ADDisc (bit)
ACommit (bit)
AFinStmt (bit)
AInsp (bit)
ACredit (bit)
AReferral (bit)
AReferralPerson (varchar)
AReferralAmount (varchar)
MName (varchar)
MAppNum (varchar)
MAddress (varchar)
MCity (varchar)
MState (varchar)
MZip (varchar)
MPhone (varchar)

FormBrokersDemand (Cont'd)
MFax (varchar)
MLO (varchar)
MLOPhone (varchar)
MLOPager (varchar)
MLOEmail (varchar)
MLOURL (varchar)
MIAppCoName (varchar)
MIAppCoPhone (varchar)
MIAppCoFax (varchar)
MIAppEmail (varchar)
MIAppName (varchar)
MIAppURL (varchar)
MIAppPhone (varchar)
MISurCoName (varchar)
MISurCoPhone (varchar)
MISurCoFax (varchar)
MISurEmail (varchar)
MISurName (varchar)
MISurURL (varchar)
MISurPhone (varchar)
MIInsCoName (varchar)
MIInsCoPhone (varchar)
MIInsCoFax (varchar)
MIInsEmail (varchar)
MIInsName (varchar)
MIInsURL (varchar)
MIInsPhone (varchar)
CTPrice (varchar)
CTPerc (varchar)
CTCommission (varchar)
C1Name (varchar)
C1Commission (varchar)
C1Fee (varchar)
C1Total (varchar)
C2Name (varchar)
C2Commission (varchar)
C2Fee (varchar)
C2Total (varchar)
CDepositHeldBy (varchar)
CDepositHeld (varchar)
CWaterEscrow (bit)
CWaterEscrowAmount (varchar)
CRentEscrow (bit)
CRentEscrowAmount (varchar)
CWarranty (bit)
CWarrantyAmount (varchar)
CPaidBy (bit)
CPaidTo (varchar)
CAttorneyPackages (bit)
CA1Name (varchar)
CA1Address (varchar)
CA1City (varchar)
CA1State (varchar)
CA1Zip (varchar)
CA1Phone (varchar)
CA1Fax (varchar)
CA1Email (varchar)
CA1URL (varchar)

FormBrokersDemand (cont'd)
CA2Name (varchar)
CA2Address (varchar)
CA2City (varchar)
CA2State (varchar)
CA2Zip (varchar)
CA2Phone (varchar)
CA2Fax (varchar)
CA2Email (varchar)
CA2URL (varchar)
CInstructions (varchar)
NNotes (varchar)
ModifiedDate (datetime)

Figure 8A

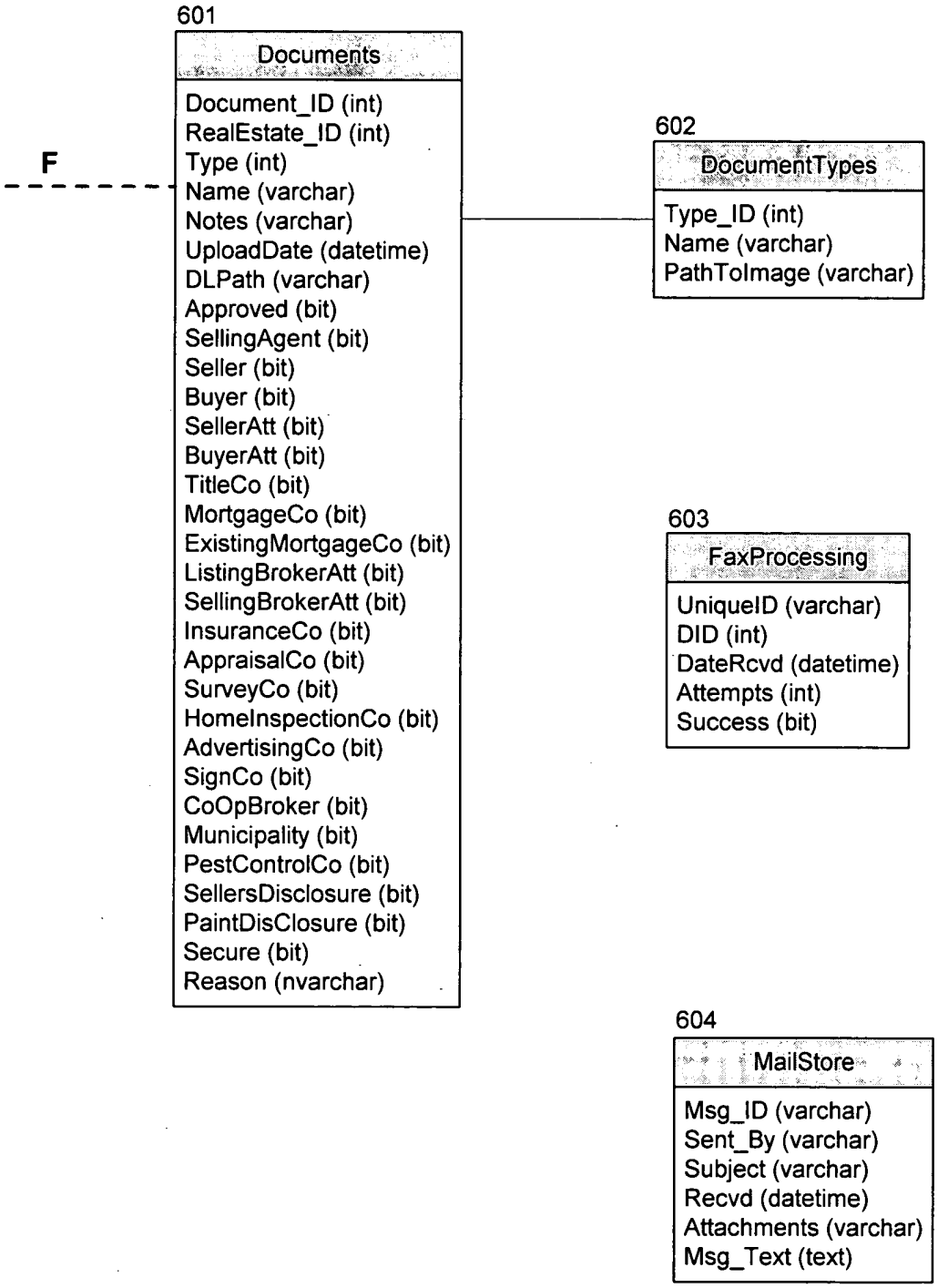
601
Documents
Document_ID (int)
RealEstate_ID (int)
Type (int)
Name (varchar)
Notes (varchar)
UploadDate (datetime)
DLPath (varchar)
Approved (bit)
SellingAgent (bit)
Seller (bit)
Buyer (bit)
SellerAtt (bit)
BuyerAtt (bit)
TitleCo (bit)
MortgageCo (bit)
ExistingMortgageCo (bit)
ListingBrokerAtt (bit)
SellingBrokerAtt (bit)
InsuranceCo (bit)
AppraisalCo (bit)
SurveyCo (bit)
HomeInspectionCo (bit)
AdvertisingCo (bit)
SignCo (bit)
CoOpBroker (bit)
Municipality (bit)
PestControlCo (bit)
SellersDisclosure (bit)
PaintDisClosure (bit)
Secure (bit)
Reason (nvarchar)
F
602
DocumentTypes
Type_ID (int)
Name (varchar)
PathToImage (varchar)
603
FaxProcessing
UniqueID (varchar)
DID (int)
DateRcvd (datetime)
Attempts (int)
Success (bit)
604
MailStore
Msg_ID (varchar)
Sent_By (varchar)
Subject (varchar)
Recvd (datetime)
Attachments (varchar)
Msg_Text (text)

Figure 8B

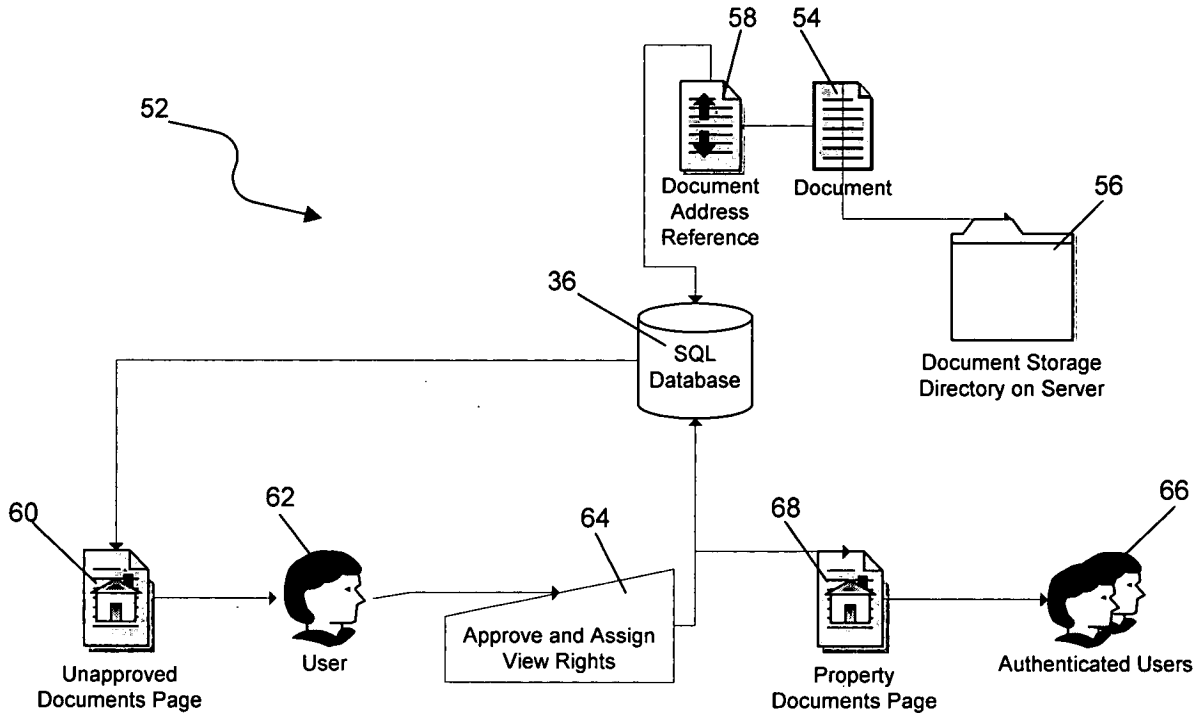
52
58
54
Document Address Reference
Document
56
36
SQL Database
Document Storage Directory on Server
60
62
64
68
66
Unapproved Documents Page
User
Approve and Assign View Rights
Property Documents Page
Authenticated Users

Figure 9

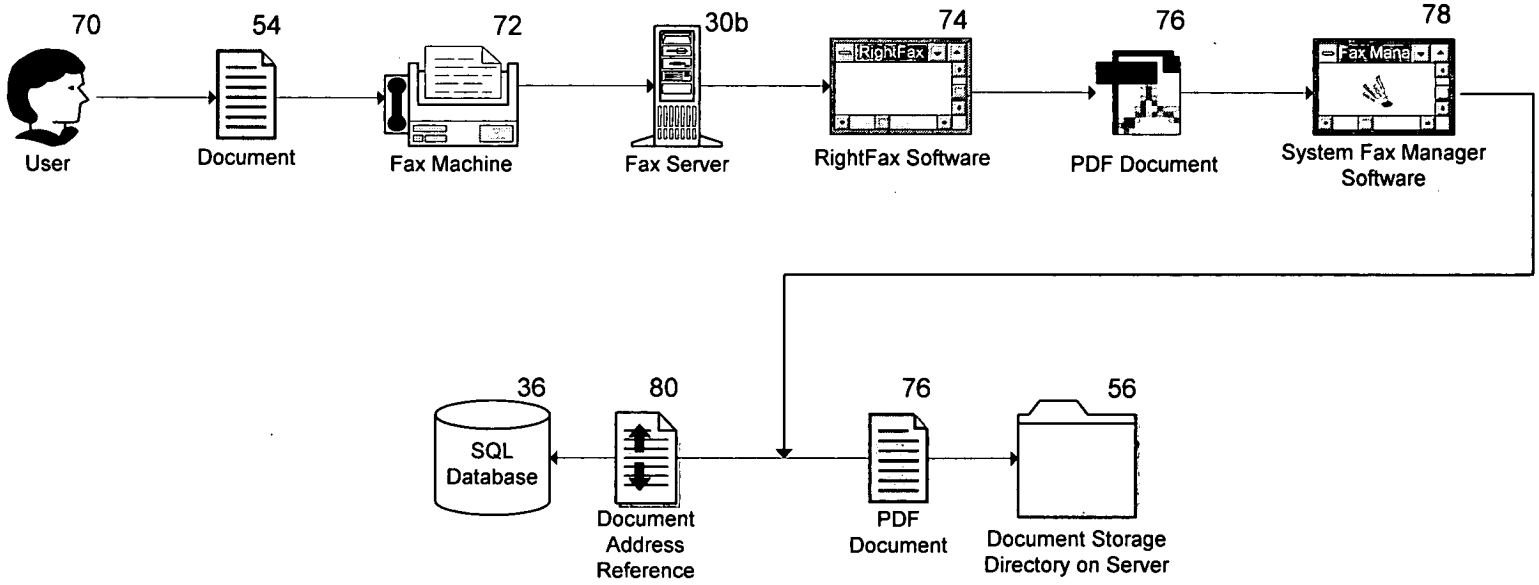
70
User
54
Document
72
Fax Machine
30b
Fax Server
74
RightFax
RightFax Software
76
PDF Document
78
Fax Manager
System Fax Manager Software
36
SQL Database
80
Document Address Reference
76
PDF Document
56
Document Storage Directory on Server

Figure 10a

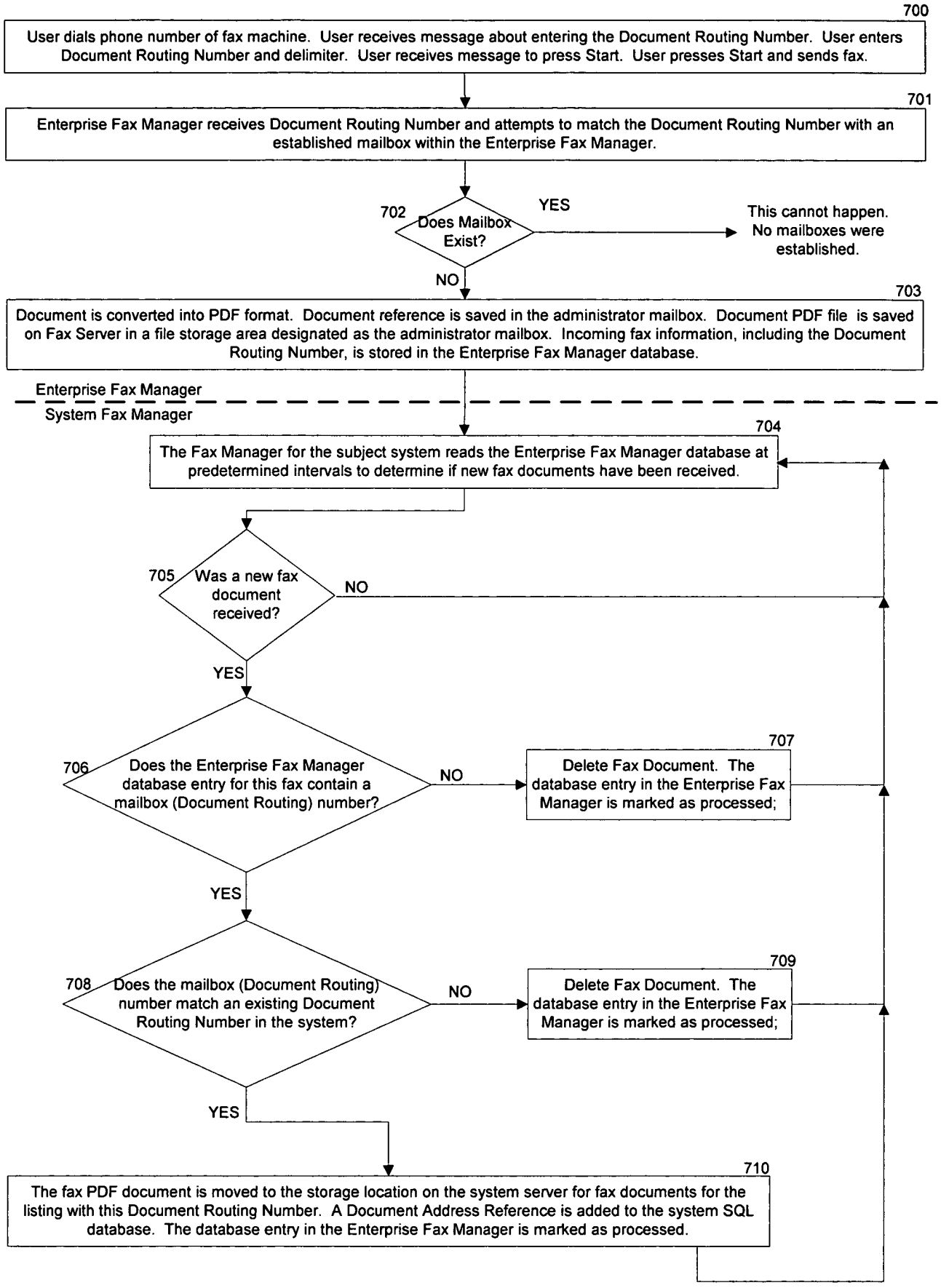
700
User dials phone number of fax machine. User receives message about entering the Document Routing Number. User enters Document Routing Number and delimiter. User receives message to press Start. User presses Start and sends fax.
701
Enterprise Fax Manager receives Document Routing Number and attempts to match the Document Routing Number with an established mailbox within the Enterprise Fax Manager.
702
Does Mailbox Exist?
YES
This cannot happen. No mailboxes were established.
NO
703
Document is converted into PDF format. Document reference is saved in the administrator mailbox. Document PDF file is saved on Fax Server in a file storage area designated as the administrator mailbox. Incoming fax information, including the Document Routing Number, is stored in the Enterprise Fax Manager database.
Enterprise Fax Manager
System Fax Manager
704
The Fax Manager for the subject system reads the Enterprise Fax Manager database at predetermined intervals to determine if new fax documents have been received.
705
Was a new fax document received?
NO
YES
706
Does the Enterprise Fax Manager database entry for this fax contain a mailbox (Document Routing) number?
NO
707
Delete Fax Document. The database entry in the Enterprise Fax Manager is marked as processed;
YES
708
Does the mailbox (Document Routing) number match an existing Document Routing Number in the system?
NO
709
Delete Fax Document. The database entry in the Enterprise Fax Manager is marked as processed;
YES
710
The fax PDF document is moved to the storage location on the system server for fax documents for the listing with this Document Routing Number. A Document Address Reference is added to the system SQL database. The database entry in the Enterprise Fax Manager is marked as processed.

Figure 10b

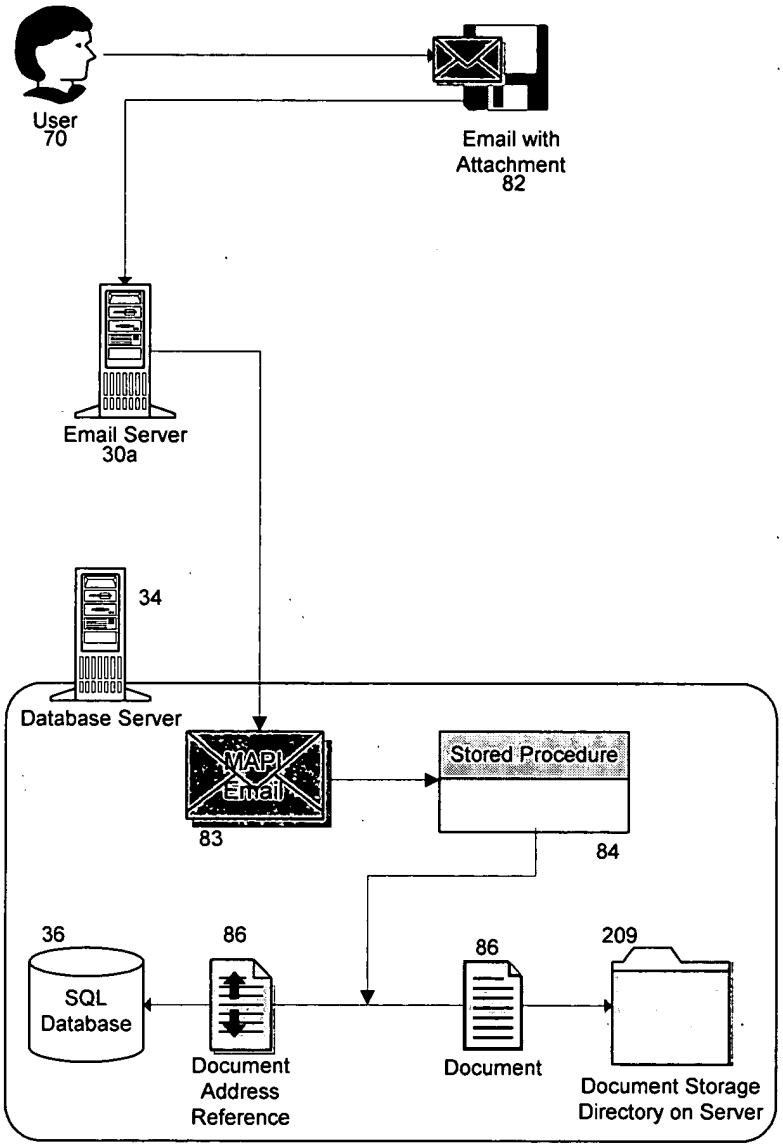
User
70
Email with
Attachment
82
Email Server
30a
34
Database Server
MAPI
Email
83
Stored Procedure
84
36
SQL
Database
86
Document
Address
Reference
86
Document
209
Document Storage
Directory on Server

Figure 11a

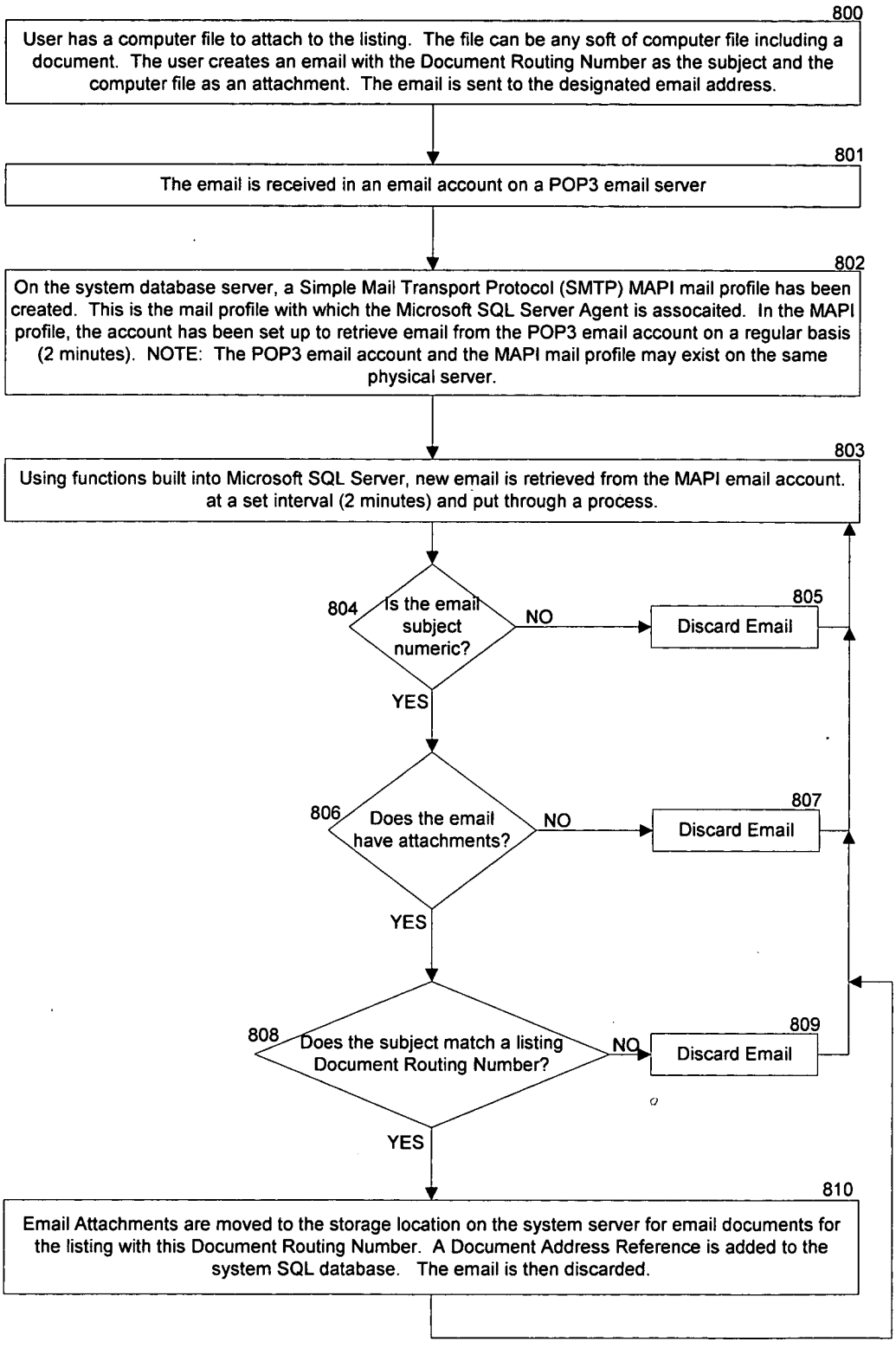
800
User has a computer file to attach to the listing. The file can be any soft of computer file including a document. The user creates an email with the Document Routing Number as the subject and the computer file as an attachment. The email is sent to the designated email address.
801
The email is received in an email account on a POP3 email server
802
On the system database server, a Simple Mail Transport Protocol (SMTP) MAPI mail profile has been created. This is the mail profile with which the Microsoft SQL Server Agent is assocaited. In the MAPI profile, the account has been set up to retrieve email from the POP3 email account on a regular basis (2 minutes). NOTE: The POP3 email account and the MAPI mail profile may exist on the same physical server.
803
Using functions built into Microsoft SQL Server, new email is retrieved from the MAPI email account. at a set interval (2 minutes) and put through a process.
804
Is the email subject numeric?
NO
805
Discard Email
YES
806
Does the email have attachments?
NO
807
Discard Email
YES
808
Does the subject match a listing Document Routing Number?
NO
809
Discard Email
YES
810
Email Attachments are moved to the storage location on the system server for email documents for the listing with this Document Routing Number. A Document Address Reference is added to the system SQL database. The email is then discarded.

Figure 11b

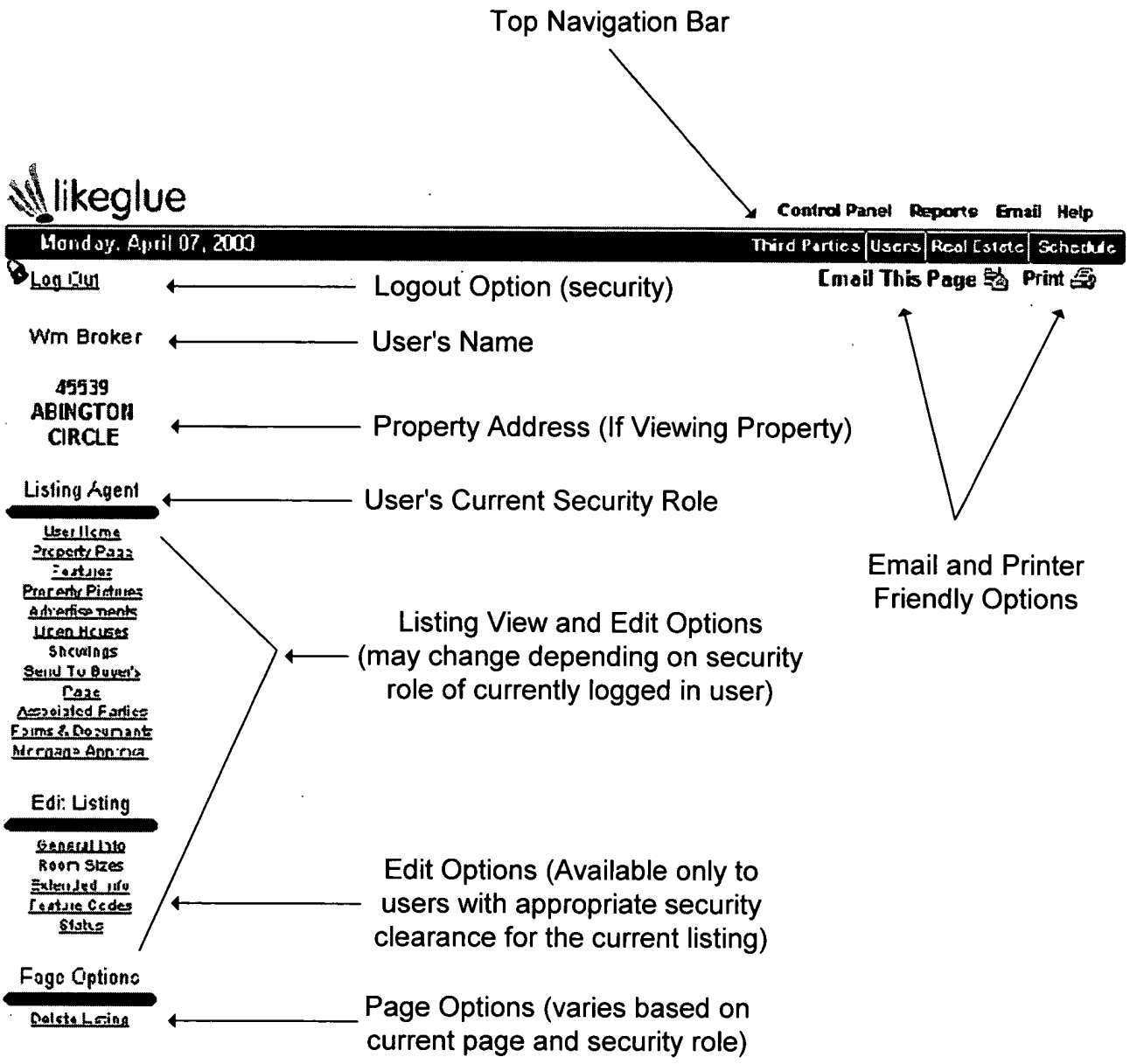
Top Navigation Bar
likeglue
Control Panel Reports Email Help
Monday, April 07, 2003
Third Parties Users Real Estate Schedule
Log Out
Email This Page
Print
Logout Option (security)
Wm Broker
User's Name
45539
ABINGTON
CIRCLE
Property Address (If Viewing Property)
Listing Agent
User's Current Security Role
User Home
Property Page
Features
Property Pictures
Advertisements
Open Houses
Showings
Send To Buyer's
Page
Associated Parties
Forms & Documents
Mortgage Approval
Email and Printer
Friendly Options
Listing View and Edit Options
(may change depending on security
role of currently logged in user)
Edit Listing
General Info
Room Sizes
Extended Info
Feature Codes
Status
Edit Options (Available only to
users with appropriate security
clearance for the current listing)
Page Options
Delete Listing
Page Options (varies based on
current page and security role)

Figure 12

Edit Property Details

Required fields are marked in blue

MLS Number:

Property ID: Demo-14

Class: Vacant Land

Style: 91 Vacant Land

Listing Exceptions: ☐

Signed Disclosure: ☐

Contract Type:
- (•) Exclusive Right To Sell
- ( ) Exclusive Right To Sell/VR
- ( ) Exclusive Agency
- ( ) Exclusive Agency/VR

Listing Price: 80000

Disposition:
- (•) Sale
- ( ) Lease

Compensation:
- SA ☑ (•) Percent ( ) Dollars 3
- BB ☑ (•) Percent ( ) Dollars 3
- NB ☑ (•) Percent ( ) Dollars 2

Street Number:

Street Direction:

Street Name: Likeglue St.

Address 2:

City: Romeo

State: Michigan

Zip Code: 48065

Country: USA

Cross Roads:

County: 50 Macomb

Area No.: 50001 BRUCE TWP

Directions: North on Van Dyke from Romeo, 2 miles

Figure 13

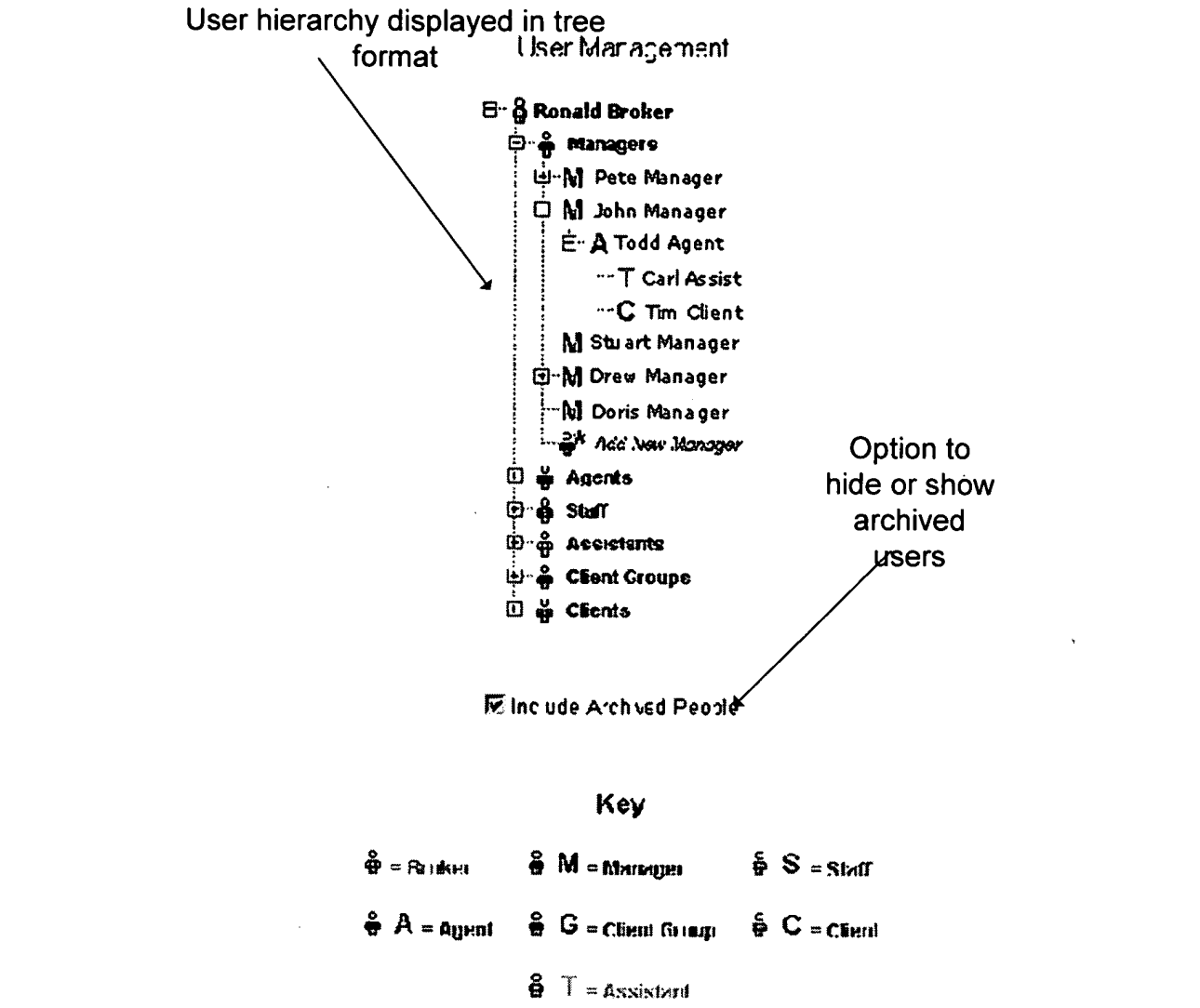
User hierarchy displayed in tree format
User Management
Ronald Broker
Managers
Pete Manager
John Manager
Todd Agent
Carl Assist
Tim Client
Stuart Manager
Drew Manager
Doris Manager
Add New Manager
Agents
Staff
Assistants
Client Groups
Clients
Option to hide or show archived users
Include Archived People
Key
M = Manager
S = Staff
A = Agent
G = Client Group
C = Client
T = Assistant
Client Detail
Name: Tim Client
Title:
Company:
Address: 122543 Baldwin Ct.
Oxland, MI 22334
Easily Edit or Delete User Information
Addresses
Phone Numbers
Email Addresses
Home
No phone listed
No email listed
Remarks
No comments have been posted.
Add User Details
Close

Figure 14

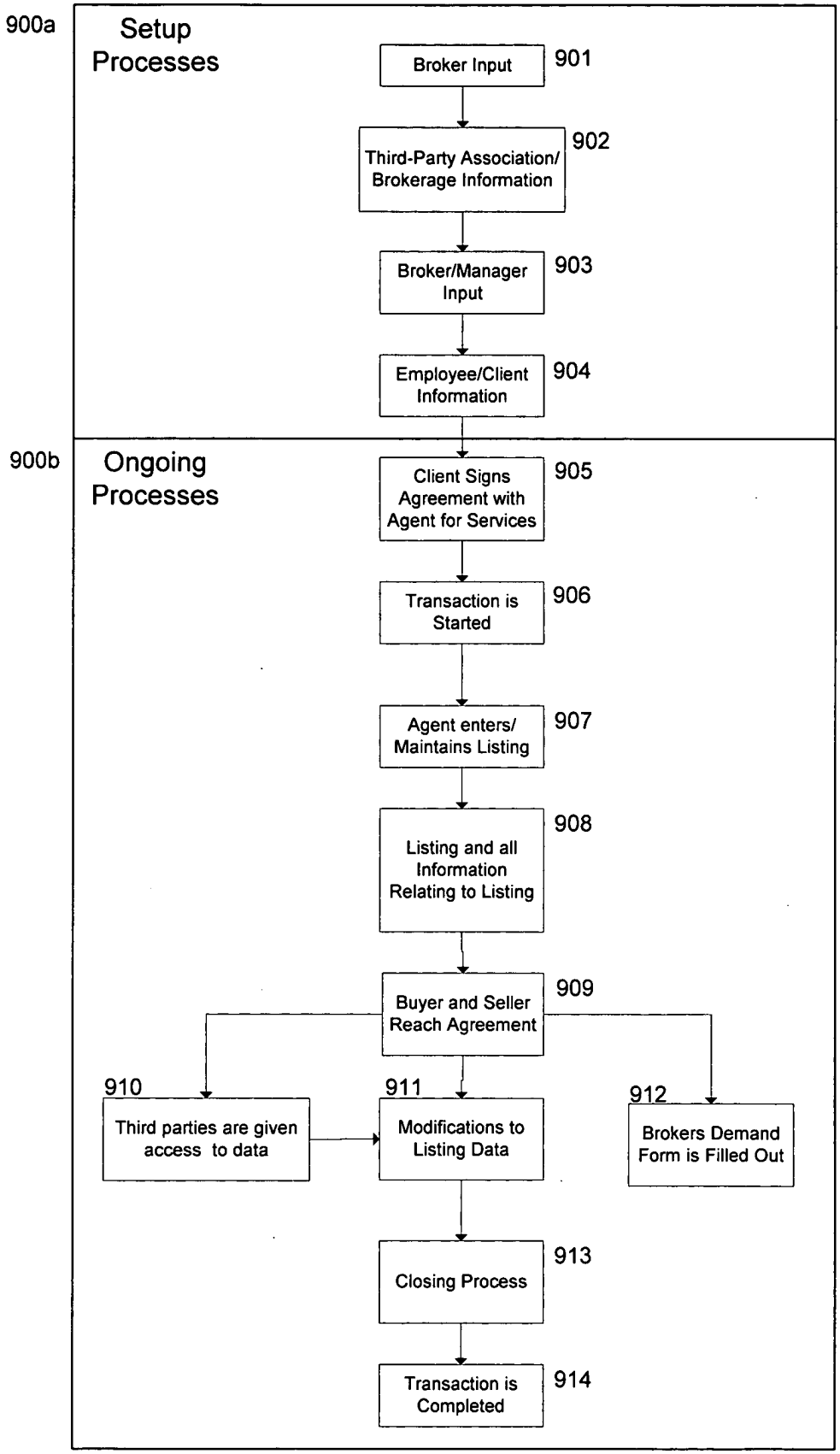
900a
Setup Processes
Broker Input
901
Third-Party Association/ Brokerage Information
902
Broker/Manager Input
903
Employee/Client Information
904
900b
Ongoing Processes
Client Signs Agreement with Agent for Services
905
Transaction is Started
906
Agent enters/ Maintains Listing
907
Listing and all Information Relating to Listing
908
Buyer and Seller Reach Agreement
909
910
Third parties are given access to data
911
Modifications to Listing Data
912
Brokers Demand Form is Filled Out
Closing Process
913
Transaction is Completed
914

Figure 15